

# THE MORTAR & SCREED COMPANY

LTD

THE OAKLANDS, ADMASTON, TELFORD, SHROPSHIRE, TF50AN

TEL: 01952 224202 FAX: 01952 223932

## Product Data Sheets Sand Cement Screed – Data Sheet No. 004

### Introduction

All The Mortar & Screed Company's screeds are factory produced from our state of the art fully automated batching plants. All our screeds are suitable for use in many applications with the addition of different admixtures. We provide screed which is ready to use at a perfect consistency without the need of further mixing either in bags or loose. We also provide a collection service whereby someone can pre-order an amount for collection. All of our screed provides excellent durability and consistency.

### Technical Information

All our screeds are supplied are produced and manufactured to the requirements of BS EN BS EN 13813 under a quality system externally audited and certified to ISO 9001.

We offer a comprehensive technical sales support service for specifiers and customers.

Appointments can be booked for site visits and we always welcome an invite to the site pre-start meetings.

### Constituents & Manufacture

All constituent materials used in the production of the whole range of our products are carefully selected, accurately proportioned to ensure a consistent finished product. Admixtures are used to ensure the screed remains workable for a predetermined amount of time, usually 10 hours to fulfil site requirements.

### Strength and Durability

When specified correctly and used in accordance to Codes of Practice the screed

supplied will last the design life of the build.

All our Screed provides excellent durability due to the carefully selected materials used and accurately proportioned mixing.

Our screed will provide a consistence that would be extremely difficult to replicate with site mixed material.

Screed should never be used as a wearing surface.

### Screed Class and Strength

Screed Product BS EN 13813	1:3	1:4	1:5
Minimum Compressive Strength (Nmm <sup>2</sup> )	30	20	16
Minimum Flexural Strength (Nmm <sup>2</sup> )	3	2	1

### Density

Typical Results	Density (kg/mm <sup>2</sup> )
Fresh Wet Sample	1800 - 2000
Dried & Cured	2000 - 2200

### Application Types

Bonded)

Bonded screed must be a minimum thickness of 40mm. The bond quality depends on the diligence used in the preparation work carried out. The concrete substrate must be swept

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clear of any dust and other contaminants such as oils, grease, soil, lime or gypsum based products. Before the screed is placed and appropriate bonding agent must be applied to the substrate, ensuring it has not dried prior to laying the screed.

(Unbonded)

Where it is not possible to achieve a complete bond between the screed and substrate a plastic membrane should be used to seal to substrate. The minimum depth should be 40mm and if under floor heating pipes are installed the depth should be increase to 65mm.

(Floating)

Screed laid over insulation usually for sound or thermal benefit must be a minimum of 65mm or 75mm where under floor heating is used. All pipe work must be firmly secured and pressure tested prior to laying the screed.

## Freeze Thaw Resistance

In freezing conditions adequate precautions must be taken to prevent freeze thaw.

## Delivery and Storage

Screed can be supplied loose or in bulk bags and also collected directly from our plants. Bulk bags are used where screed needs to be unloaded in areas where the bulk delivery vehicles cannot access. When bulk bags are placed they should be split open to prevent self-compaction within the bags. Screed kept in the bags for extended periods can cause compaction and the screed will start to hydrate and set. Screed can also be pumped however when using a pump it is advisable to inform us when placing an order. Loose screed should be laid on a plastic sheet to prevent the screed from becoming contaminated and drying out too quickly. Protection from excessive rain, frost

and extreme heat is necessary.

Never tip a new load of screed on top of the remains of a previous load.

## Specialist Screeds

Our specialist screeds have been developed for higher performance requirements, such as, greater strength, reduced drying periods, improved compaction compared with traditional screed and reduced risk of shrinkage and cracking. All our specialist screeds have the addition of polypropylene fibres.

## Economics

The below table shows an average coverage with a variance of screed depths.

Screed Depth	Coverage M <sup>2</sup> /Tonne	Screed Depth	Coverage M <sup>2</sup> /Tonne
15	30	50	9
20	22.5	55	8.2
25	18	60	7.5
30	15	65	7
35	13	70	6.5
40	11	75	6
45	10	80	5

## Drying times

In good conditions, you should allow 25mm thickness per month up to 50mm. Where screed depths are greater than 50mm you should double the drying time and allow 2 months drying per 25mm. When the substrate has high moisture content the drying times will be increased. High humidity and low temperatures can also extend drying times.

## Curing

After laying screed, curing is recommended by covering the screed with a plastic sheet to help

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retain the moisture within the screed. It is also advised to dampen down the screed before covering, however never saturate the screed as this will be detrimental to the screeds performance. Light foot traffic – 3 days, site traffic – 7 days.

### Placing an Order

When ordering, please be aware of the required screed type, quantity in tonnes or cubic metres and your preferred time of delivery.

### Prices

Prices will vary according to mix designs, quantity and delivery locations. For a precise quotation please call our sales office on 01952-254101.

### Health & Safety Information

Contact with wet cement can cause serious burns and can lead to contact dermatitis. All who may come into contact with wet cementitious mortar must read and understand our safety data sheet use the correct personal protection equipment.

Please refer to our screed safety data sheet.

### Further Requirements

If you require any further information or technical support with any of our range of products please do not hesitate to contact us on 01952254101 or [info@mortarandscreed.co.uk](mailto:info@mortarandscreed.co.uk).